



**JOURNAL OF THE
MINE VENTILATION SOCIETY
OF SOUTH AFRICA**

**INDEX
TO
VOLUME 40
1987**

1. PAPERS

	Water	Page
Desalination of mine water Authors: R.D.C. Shone and R.C. Harries (March)		29
Heat and Temperature		
Air temperature increases in airways — further work Author: R. Hemp (January)		1
The effect of clothing on heat stress in mining environments Author: A.I. Murray-Smith (March)		37
The insulation of rock surfaces — an empirical study Authors: P. Bottomley and B. van Rensburg (April)		41
The measurement of heat flow in a backfilled stope Authors: M.K. Matthews, H.N. McCreadie and T.C.W. March (November)		142
Fans and Airflow		
Controlled recirculation of mine air in working districts Authors: R.D. Lee and I. Longson (February)		13
A discussion on the testing of production fans and the tolerances applied to measurement Author: J. Marples (February)		25
Scale model testing of Erfdeel Mine upcast shaft bend and fan drift Author: D.E. Wrigley (April)		49
Airflow patterns within advancing bord and pillar workings and their influence on airborne dust control Author: E.J. Meets (December)		158
Gases		
Controlled recirculation: its effect on blast contaminant decay Authors: N.A. Alexander, A.D. Unsted and K.C. Benecke (July)		85
Cooling		
Guidelines for the performance testing of surface bulk air coolers Authors: W.F. Gebler and R. Ramsden (May)		57
Optimum use of daily changes in wet-bulb temperature in the operation of surface pre-cooling towers Authors: S.J. Bluhm and G. Lancaster (May)		64
The development of an air cooler for use at the working face Authors: L. Feio, G. Lancaster, R. Ramsden and H. Jawurek (August)		98
A program for calculating the performance of a multi-stage horizontal spray chamber Author: J. Partyka (August)		104
Icing of cooling tower fills Author: B. Verwilghen (September)		120
Collieries		
The application of lightning warning systems on South African coal mines Authors: A. Stockhusen and W.J.J. Coetzer (February)		21
'n Globale oorsig van steenkoolmyn beplanning Skrywer: C.B.J. Reynolds (June)		73
Some experiences in the use of wetting agents to suppress dust at Sigma Colliery Authors: E.J. Meets and A.F. Neethling (October)		126
Airflow patterns within advancing bord and pillar workings and their influence on airborne dust control Authors: E.J. Meets (December)		158
Dust		
Some experience in the use of wetting agents to suppress dust at Sigma Colliery Authors: E.J. Meets and A.F. Neethling (October)		126

Fires

An analysis of underground fires in South African coal mines from 1970 to 1985 Authors: R. Morris and G.P. Badenhorst (October).....	134
---	-----

Noise

Die doeltreffendheid van gehoorbeskermers in 'n omgewing met 'n hoë geraaspeil Skrywer: W. von Pilz (April).....	46
---	----

General

Environmental control staff — the future challenge (Presidential address) Author: L.J.C. Pretorius (September).....	109
--	-----

2. MISCELLANEOUS

Branch Line	11,40,81,94
25 Years Ago	12,28,40,56,72,84,96,108,124,140,156,168
Solution to crossword puzzle	12
Shaft talk	36,54,71,83,95,108,123,140,156,167
New from the mines	39,82
Symposium	55
Obituary — Arvid Huss	72
Fourth International Mine Ventilation Congress	82
ASOSH	83
News from COM Research Organization	92
Personality: W.W.J. Viljoen	93
News from Council	96,122
Message from your editor	97
1986/7 Council	115
Fire Tunnel Commissioned	119
Profile: W. Holding	122
Message from your President	125
Council sub-committee issues computer software	141
President's Christmas message	157
President se Kersfees en Nuwejaarsboodskap	157
Pedal power and biscuits	164
Mine ventilation in the hereafter	165
Temperature and life	166

3. VISITS AND MEETINGS

Proceedings of the Annual General Meeting held on 10th June 1987	116
Workshop on hand-held programmable calculators held on 11th September 1987	133
Visit to Masauli Asbestos Mine on 9th November 1987	165

